Title (en)

TISSUE METABOLISM MEASURING APPARATUS

Publication

EP 0329115 B1 19931006 (EN)

Application

EP 89102608 A 19890215

Priority

JP 3620388 A 19880217

Abstract (en)

[origin: EP0329115A1] A tissue metabolism measuring apparatus comprises a scanner (51) which surrounds a living body of a person to be examined. Ultrashort light pulses of the ith wavelength are applied to the living body from a sample light transmitting path (80k) corresponding to the kth cell of this scanner and the sample light pulses received by a sample light receiving path (81l) corresponding to the lth cell and reference light pulses transmitted from a reference light path (79) and a delay light path (78) are converged by a converging lens (75). A CPU(64) counts photons outputted from a photomultiplier (22) based on the converged light pulses and calculates an average value by averaging a predetermined number of count values. A delay amount of the reference light pulses through the delay light path (78) is changed based on the average value and, based on delay time and an average value in the delay time, a photon count value S0i(k, l) obtained by counting the photons of the second harmonic when the delay amount of the reference light pulses is a predetermined value is stored. Based on the photon average value S0i(k, l), a tomographic image of the metabolism of the living body is evaluated.

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A61B 5/00

IPC 8 full level

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CPC (source: EP US)

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Cited by

EP2410315A3; EP0628804A1; US5582169A; EP0561643A1; DE4134845A1; US5419320A; US11989803B2; WO03102558A1; US7647091B2; US7962200B2; US8326406B2; US8170651B2; US8812088B2; US8948852B2

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